Serial No.: 10/087,989

Atty Docket No. 280/072CIP

This listing of claims will replace all prior version, and listing, of claims in the application.

## Listing of Claims:

1. A method of vertically separating a thick wafer having a top surface and a bottom surface, the thick wafer being on a dice support, the method comprising:

aligning a first dicing tool for a first dice with the thick wafer adjacent to the top surface;

dicing the thick wafer to create a first dice;

flipping the thick wafer so that the top surface is in contact with the dice support; aligning a second dicing tool for a second dice with the composite wafer adjacent to the bottom surface of the thick wafer; and

dicing through the thick wafer.

- 2. The method of claim 1, wherein the first and second dicing tools are the same.
- 3. (currently amended) The method of claim 1, further comprising, after said dicing to create the first dice, bonding securing another wafer on top of the first dice.
- 4. The method of claim 3, further comprising, after dicing to create the first dice, aligning a third dicing tool for a third dice with the thick wafer adjacent to the another wafer and dicing to create a third dice.
- 5. The method of claim 4, wherein the third dice is created before the second dice.
- 6. The method of claim 4, wherein at least two of the first, second and third dicing tools are the same.
- 7. The method of claim 1, wherein the thick wafer includes a first wafer and a second wafer.

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8. The method of claim 7, wherein the thick wafer includes a first wafer and a second wafer have different thicknesses.

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- 9. The method of claim 7, wherein the first wafer and the second wafer are of different materials.
- 10. The method of claim 7, wherein at least one of the first and second wafers is lithographically processed on a wafer level.
- 11. The method of claim 10, wherein at least one of the first and second wafers has a lithographically created optical element thereon.
- 12. (currently amended) The method of claim 4, further comprising, before said aligning of the first dicing tool, bonding securing the first and second wafers together.
- 13. (currently amended) The method of claim 12, wherein said bonding securing includes providing adhesive material between the first and second wafers.
- 14. (currently amended) The method of claim 12, wherein said bonding securing includes fusing the first and second wafers together.
- 15. (currently amended) The method of claim 12, further comprising, before said bonding securing, lithographically processing at least one of the first and second wafers.
- 16. The method of claim 15, wherein said lithographically processing includes creating an optical element.
- 17. The method of claim 1, wherein said aligning includes aligning the second dicing tool through the thick wafer to the first dice.

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- 18. The method of claim 1, wherein said aligning includes aligning the second dicing tool to alignment marks on the thick wafer.
- 19. The method of claim 18, further comprising, prior to said aligning of the first dicing tool, creating alignment marks on the top and bottom surfaces of the thick wafer.
- 20. (new) The method of claim 1, wherein said diving through the thick wafer realized the vertical separating of the thick wafer.